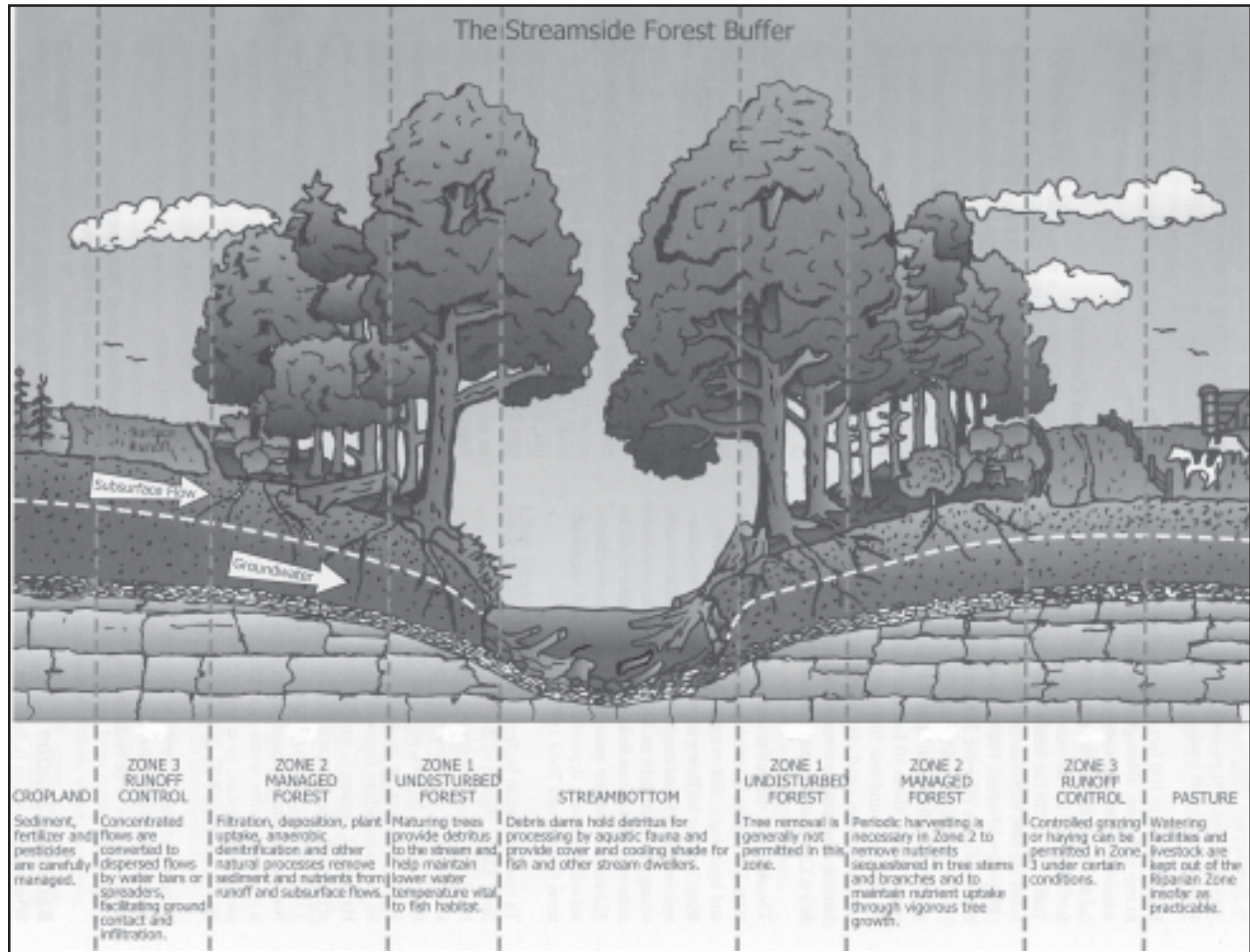


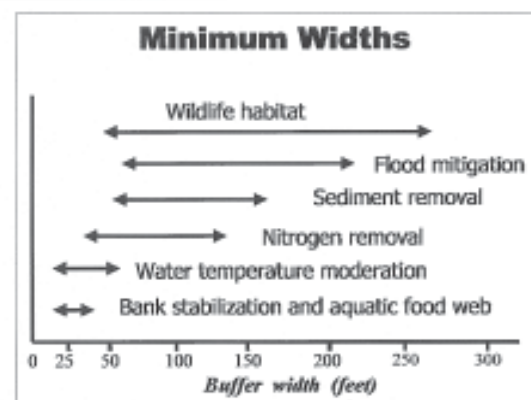
APPENDIX F: BUFFER ZONES AND FUNCTIONS



Schematic of the three zone Riparian Forest Buffer System

Riparian Forest Buffers: % Reduction of Nutrients and Sediment*			
Level	Sediment	Nitrogen	Phosphorus
High	85-95	68-92	70-81
Medium	65-85	45-68	50-70
Low	40-65	15-45	24-50

* General approximations for 100-foot forest buffer system. Actual levels will vary by land use and site conditions. Based on loadings from agricultural lands, performance in field studies rated as high removed total N in the range of 23-66 #/acre/year and total P in the range of 1-3 #/acre/year from adjacent fields. Expected level of function is based on mature forest in Zone 1 and 2.



Range of minimum widths for meeting specific buffer objectives

The above graphics were taken from: Palone, R. S. and Todd, A. H. eds. *Chesapeake Bay Riparian Handbook: A Guide for Establishing and Maintaining Riparian Forest Buffers*. USDA Forest Service, N. E. Area NA-TP-02-97. Radnor, PA, 1997.

